

**Amendments to the Specification:**

Please replace paragraph [0022] with the following amended paragraph:

[0022] The implantable pump 4 has a blood inlet 12, a blood outlet 14 and a pumping element, such as an impeller 24 (Fig. 3), 16 to pump the fluid. The pump 4 has an inlet lumen 18 and an outlet lumen 20, which may be artificial graft material or a harvested vessel, coupled to the inlet and outlet 12, 14, respectively. The inlet and outlet lumens 18, 20 are attached to suitable vascular locations such as the locations described below. In addition to the impeller 24, ~~the~~ The pumping element 16 may be any suitable element, such as a roller pump, axial pump, centrifugal pump, or any other suitable pump, without departing from the scope of the invention. For example, suitable pumps include the Thoratec HeartMate LVAD and the MedQuest HeartQuest VAD.

Please replace paragraph [0023] with the following amended paragraph:

[0001] Referring to Fig. 3, the pump 4 is a centrifugal pump 22 having the an impeller 24 to pump fluid passing through a fluid chamber 26. The impeller 24 has magnets 28 attached thereto. The impeller 24 is driven by magnetic forces acting on the magnets 28 produced by an external driver 33 or internal coils 30. The internal coils 30 are powered by a battery 32 contained in a separate housing 34 with electrical lines contained in a conduit 36 between the pump 4 and battery 32. Of course, the battery 32 may be coupled to the pump 4 or contained within the same housing without departing from the scope of the invention. Furthermore, the pump 4 and system 2 may include more than one battery 32 for additional safety and extended operation.